(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



534402

(43) International Publication Date 27 May 2004 (27.05.2004)

PCT

(10) International Publication Number WO 2004/043527 A2

(51) International Patent Classification7: A61F 2/20

(21) International Application Number:

PCT/IL2003/000939

A61M 16/04,

(22) International Filing Date:

11 November 2003 (11.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/425,294

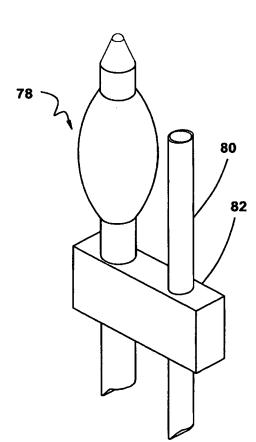
12 November 2002 (12.11.2002)

(71) Applicant (for all designated States except US): ONEG HAKARMEL LTD. [IL/IL]; 11A, Sinai Avenue, 34331 Haifa (IL).

- (72) Inventor; and
- (75) Inventor/Applicant (for US only): GAVRIELY, Oren [IL/IL]; 116A Moriah Avenue, 34618 Haifa (IL).
- (74) Agent: TSIVION, Yoram; P.O.Box 1307, 37111 Pardes Hanna (IL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,

[Continued on next page]

(54) Title: INTRA-AIRWAY VENTILATION



(57) Abstract: A tube for inducing gases into critically ill patients, in which the distal end is perforated, and covered with an inflatable - deflatable sleeve. Gas is pumped into the proximal end of the tube, which inflates the sleeve engaging the inner walls of an airway. The gas, typically a mixture of oxygen, subsequently exits the sleeve and enters the airway. Auxiliary accessories can be attached to the tube.

WO 2004/043527 A2



SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 27 May 2004 (27.05.2004)

PCT

(10) International Publication Number WO 2004/043527 A3

(51) International Patent Classification⁷: A61F 2/20

A61M 16/04,

(21) International Application Number:

PCT/IL2003/000939

(22) International Filing Date:

11 November 2003 (11.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/425,294

12 November 2002 (12.11.2002) US

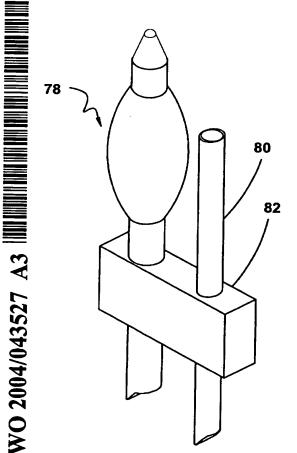
(71) Applicant (for all designated States except US): ONEG HAKARMEL LTD. [IL/IL]; 11A, Sinai Avenue, 34331 Haifa (IL).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): GAVRIELY, Oren [IL/IL]; 116A Moriah Avenue, 34618 Haifa (IL).
- (74) Agent: TSIVION, Yoram; P.O.Box 1307, 37111 Pardes Hanna (IL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,

[Continued on next page]

(54) Title: INTRA-AIRWAY VENTILATION APPARATUS



(57) Abstract: A tube (30) for inducing gases into critically ill patients, in which the distal end (20) is perforated, and covered with an inflatable - deflatable sleeve (36). Gas is pumped into the proximal end of the tube (30), which inflates the sleeve (36) engaging the inner walls of an airway. The gas, typically a mixture of oxygen, subsequently exits the sleeve (36) and enters the airway. Auxiliary accessories (80) can be attached to the tube (30).